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Inhalant drug delivery systems composed of anticholinergics and endothelin antagonists. Montague, Meade Christopher J.; Pairet, Michel; Pieper, Michael P. (Boehringer Ingelheim Pharma KG, Germany). Ger. Offen. (2002), 16 pp. CODEN: GWXXBX DE 10113366 A1 20020926 Patent written in German. Application: DE 2001-10113366 20010320. Priority: . CAN 137:252999 AN 2002:733842 CAPLUS

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Abstract

The invention concerns inhalants for the treatment of respiratory diseases that contain anticholinergics and endothelin antagonists; the inhalants can be dosed with or without propellants and can contain excipients.

Anticholinergics are salts of tiotropium, oxitropium and ipratropium; endothelin antagonists are selected from the group of Tezosentan, Bosentan, Enrasentan, Sixtasentan, T-0201, BMS-193884, K-8794, PD-156123, PD-156707,PD-160874, PD-180988, S-0139 and ZD-1611. Thus an inhalant powder was composed of capsules that contained per capsule (μg): tiotropium bromide 21.7; endothelin antagonist 270; lactose 4708.3.